

ATKINS *Solid Tooth Circular* SAWS



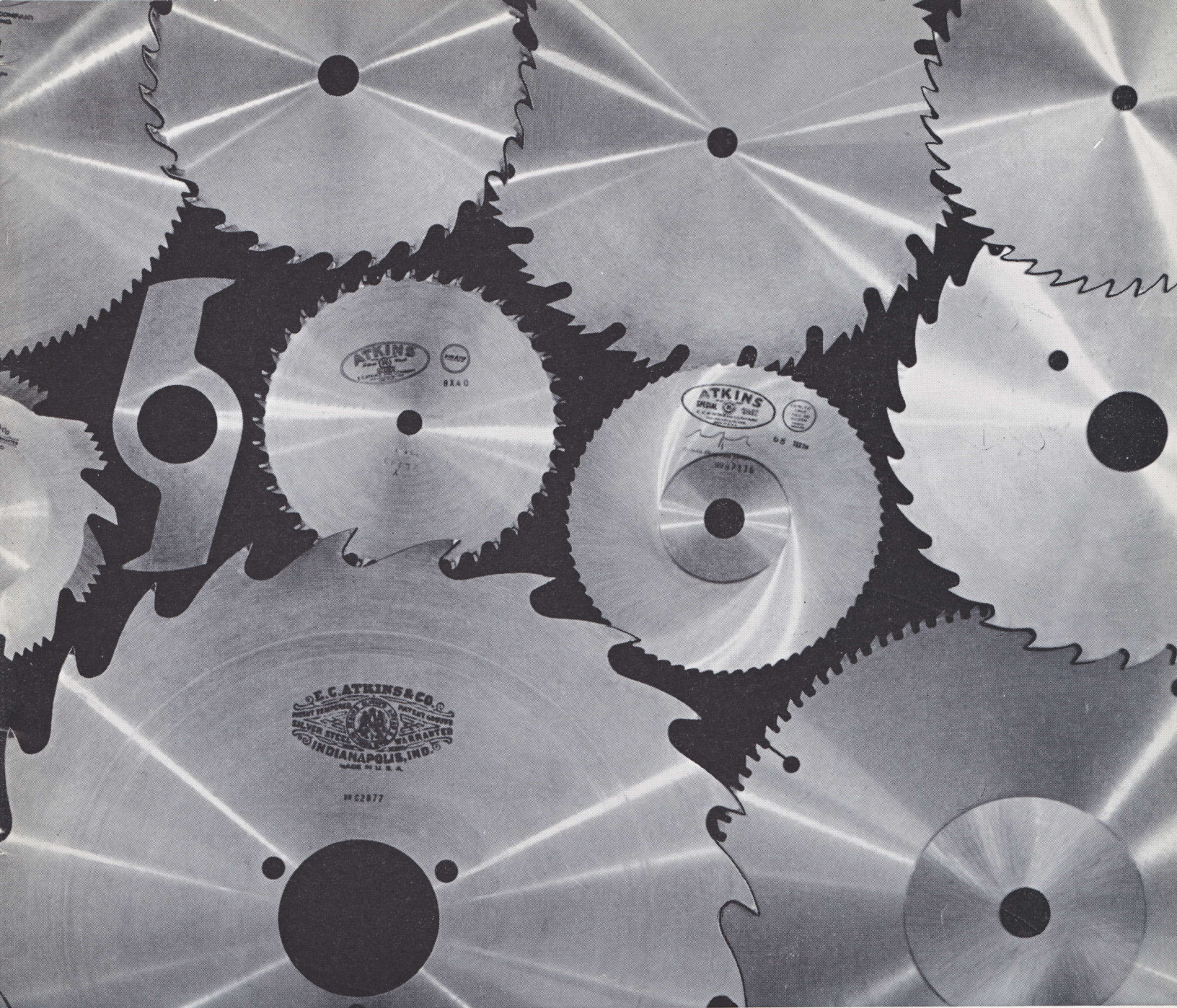
ATKINS



*An Unfailing American
Source of Supply*



ATKINS
SOLID TOOTH
CIRCULAR SAWS



The basis of any good saw is the steel from which it is made and the all important modern manufacturing and processing operations. Atkins Silver Steel in saws is not a new idea or just a trick trade name. It is the famous identifying mark of a superior saw quality. Silver Steel has all the inherent qualities so essential in producing saws to meet the exacting demands of saw users in all industries.

Every operation; toothings, heat treating, tempering,

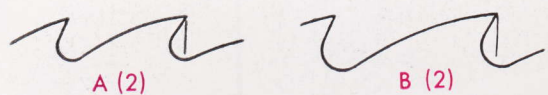
is done on the latest and most expensive equipment that can be bought for the purpose. Accurate grinding, perfect tensioning by skilled saw smiths, the beautiful smooth bright polish is characteristic of every Atkins Silver Steel Saw.

Whether your saw is a mill saw, bolter, lathe, edger, plastic, smooth-end trimmer, slasher or any other you can be sure of getting only the very best for your money when you insist on Atkins.

ATKINS

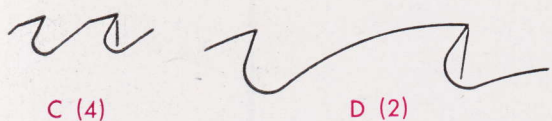
STANDARD CIRCULAR SAW TEETH

— SHOWN ONE-HALF ACTUAL SIZE —



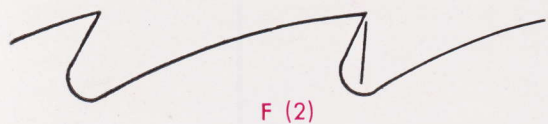
A (2)

B (2)



C (4)

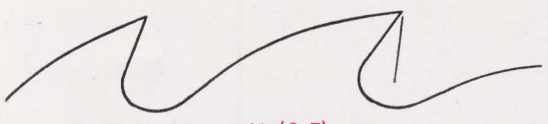
D (2)



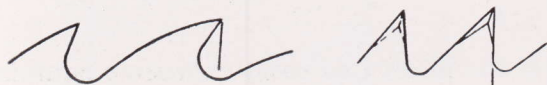
F (2)



G (2-Y)

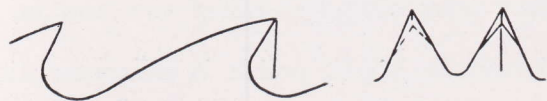


H (2-E)



I (2-swaged)

L (8)

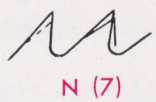


K (2)

M (9)



O (6)



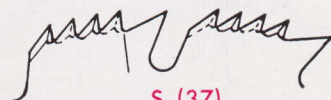
N (7)



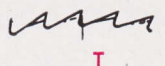
P (16)



Q (McKam)



S (37)



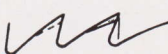
T



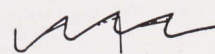
V (44)



U (27)



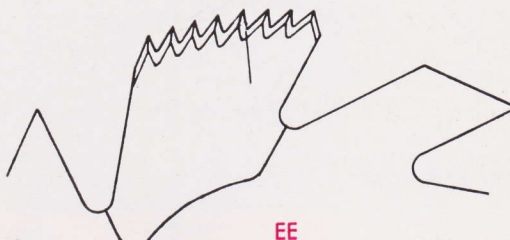
W (44)



X (44)



Y (Special groover tooth)



EE



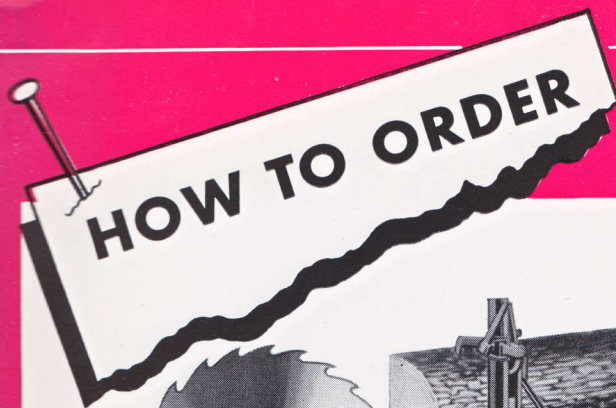
DD (Common groover tooth)

FF (Lathe)

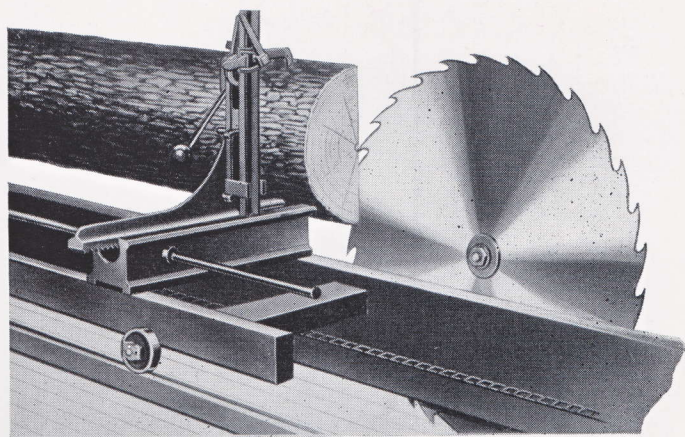
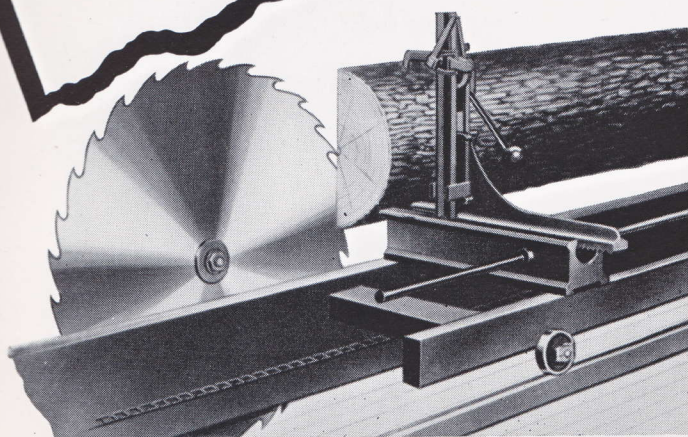


BB

CC



SOLID TOOTH CIRCULAR SAWS



IN ORDERING CIRCULAR SAWS BE CAREFUL TO GIVE FOLLOWING SPECIFICATIONS IN DETAIL

Number of saws wanted.

- A. Diameter of saw in inches.
- B. Right or left hand (see cut above).
- C. Gauge (thickness) of saw at center and also at rim.
- D. Number of teeth in saw.
- E. Style of tooth.
- F. Diameter of mandrel hole; diameter of pin holes, and distance center to center of pin holes.
- G. Number of revolutions of saw per minute while in cut.
- H. Greatest feed in inches per revolution—kind of feed.
- I. Kind of timber sawed.
- J. Spring or swage set.
- K. For rip or crosscut work.

- L. Horsepower available. If saws are to be driven by gas engines, please state full particulars as to horsepower, speed and feed.

All our stock saws forty inches and larger in diameter have standard mandrel and pin holes, namely—two-inch mandrel hole, and two five-eighths-inch lug pin holes, three inches from center to center. If wanted different, please send full pattern of holes.

Give any other instructions if non-standard.

NOTE: State plainly on order if saws to operate in gangs.

Smooth cutting, rip and cut-off saws, if swaged or set should be properly side dressed.

All set-tooth saws are set with ATKINS exclusive patented process. Tooth has two way clearance, from point down and from point back.

CIRCULAR SAW SPEEDS

While a large percentage of circular saws operate at a periphery, or rim speed, of 9,000 feet per minute this does not mean that it cannot be operated at a higher or lower

speed. We can adjust the tension in our saws to suit your requirements. Bold face figures in table are R. P. M. of spindle.

Diameter of Saw, Inches	Rim Speed—Feet per Minute					Diameter of Saw, Inches	Rim Speed—Feet per Minute				
	8,000	9,000	10,000	12,000	14,000		8,000	9,000	10,000	12,000	14,000
1"	30,557	34,377	38,197	45,836	53,475	38"	804	904	1,005	1,206	1,407
2"	15,278	17,188	19,099	22,918	26,737	40"	763	859	955	1,146	1,337
3"	10,185	11,459	12,732	15,278	17,825	42"	728	818	910	1,091	1,273
4"	7,639	8,594	9,549	11,459	13,369	44"	694	781	868	1,041	1,215
5"	6,111	6,875	7,639	9,167	10,695	46"	664	747	830	996	1,162
6"	5,092	5,729	6,366	7,639	8,912	48"	636	716	796	955	1,114
7"	4,365	4,911	5,457	6,548	7,639	50"	611	687	764	916	1,069
8"	3,819	4,297	4,774	5,729	6,684	52"	587	661	734	881	1,028
9"	3,395	3,819	4,244	5,093	5,941	54"	566	637	707	849	990
10"	3,055	3,437	3,819	4,583	5,347	56"	546	614	682	818	955
11"	2,777	3,125	3,472	4,167	4,861	58"	526	593	658	790	922
12"	2,546	2,864	3,183	3,819	4,456	60"	509	573	636	764	891
14"	2,182	2,455	2,728	3,274	3,819	62"	493	554	616	740	862
16"	1,909	2,148	2,387	2,864	3,342	64"	477	537	597	716	836
18"	1,697	1,909	2,122	2,546	2,970	66"	462	521	579	694	810
20"	1,527	1,718	1,910	2,292	2,674	68"	449	505	562	674	786
22"	1,388	1,562	1,736	2,083	2,430	70"	436	491	546	655	764
24"	1,273	1,432	1,592	1,910	2,228	72"	424	477	530	636	742
26"	1,175	1,322	1,469	1,763	2,056	74"	413	464	516	619	722
28"	1,091	1,227	1,364	1,637	1,910	76"	402	452	502	603	704
30"	1,018	1,146	1,273	1,528	1,782	78"	392	440	490	587	685
32"	954	1,074	1,193	1,432	1,671	80"	382	429	477	573	668
34"	898	1,011	1,123	1,348	1,572	82"	373	419	465	559	652
36"	848	954	1,061	1,273	1,485	84"	364	409	455	546	636

RULES FOR CALCULATING THE SPEED OF CIRCULAR SAWS, PULLEYS OR DRUMS

Problem 1. The diameter of the driven being given, to find its number of revolutions.

Rule—Multiply the diameter of the driver by its number of revolutions, and divide the product by the diameter of the driven; the quotient will be the number of revolutions of the driven.

Problem 2. The diameter and revolutions of the driver being given, to find the diameter of the driven, that shall make any given number of revolutions in the same time.

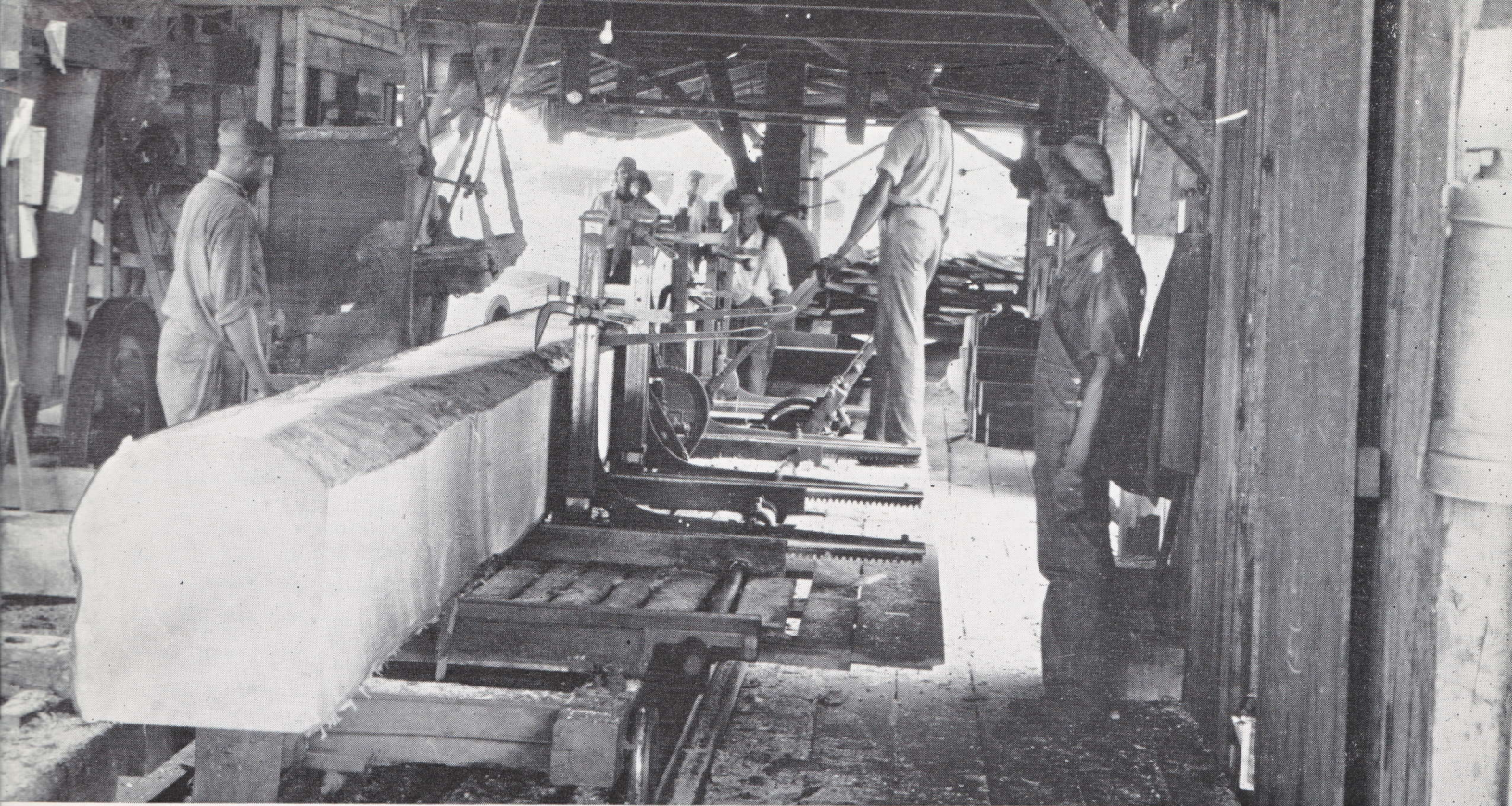
Rule—Multiply the diameter of the driver by its number of revolutions, and divide the product by the number of revolutions of the driven; the quotient will be its diameter.

Problem 3. To ascertain the size of the driver.

Rule—Multiply the diameter of the driven by the number of revolutions you wish it to make, and divide the product by the revolutions of the driver; the quotient will be the size of the driver.

STANDARD SAW GAUGES

Gauge Birmingham	Thousandths Inch	Fraction Inch	Millimeters	Gauge Birmingham	Thousandths Inch	Fraction Inch	Millimeters	Gauge Birmingham	Thousandths Inch	Fraction Inch	Millimeters
	1.00	1	25.40	5	.220	$\frac{7}{32}$	5.59	19	.042	.....	1.06
	.875	$\frac{7}{8}$	22.225	6	.203	$\frac{13}{64}$	5.18	20	.035	.....	.89
	.750	$\frac{3}{4}$	19.05	7	.180	$\frac{3}{16}$ Scant	4.57	21	.032	$\frac{1}{32}$	.81
	.625	$\frac{5}{8}$	15.875	8	.165	$\frac{5}{32}$ Full	4.19	22	.028	.....	.71
	.500	$\frac{1}{2}$	12.70	9	.148	$\frac{5}{32}$ Scant	3.76	23	.025	.....	.64
	.46875	$\frac{15}{32}$	11.905	10	.134	$\frac{1}{8}$ Full	3.40	24	.022	.....	.56
0000	.454	$\frac{29}{64}$	11.53	11	.120	$\frac{1}{8}$ Scant	3.05	25	.020	.....	.51
000	.425	$\frac{27}{64}$ Full	10.79	12	.109	$\frac{3}{16}$	2.77	26	.018	.....	.46
00	.380	$\frac{3}{8}$ Full	9.65	13	.095	$\frac{3}{32}$	2.41	27	.016	$\frac{1}{16}$	.41
0	.340	$\frac{11}{32}$ Scant	8.64	14	.083	$\frac{5}{64}$ Full	2.10	28	.014	.....	.36
1	.300	$\frac{5}{16}$ Scant	7.62	15	.072	$\frac{5}{64}$ Scant	1.82	29	.013	.....	.33
2	.284	$\frac{9}{32}$	7.21	16	.065	$\frac{1}{16}$ Full	1.65	30	.012	.....	.30
3	.259	$\frac{1}{4}$ Full	6.57	17	.058	$\frac{1}{16}$ Scant	1.47				
4	.238	$\frac{15}{64}$	6.04	18	.049	$\frac{3}{64}$	1.24				



ATKINS HEAD OR LOG RIP SAWS—"G" TEETH*

Atkins Solid Tooth Log saws are made to withstand heavy feeds and yet produce straight cuts and cut longer between fittings. This is the result of using the very finest steel and the uniform heat treatment, expert workmanship and many rigid inspections.

The superior sawing quality of Atkins Mill Saws is further attested to by the repeat business from many mills and the many new ones swinging daily to Atkins Silver Steel Saws.

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
56"	6	80, 90	62"	6x7	90
56"	7	60A, 60B, 70, 80, 90	62"	7	70, 80, 90
56"	7x8	40	62"	7x8	60A, 70, 80
56"	8	50A, 60A, 70, 80	64"	6	80, 90
56"	8x9	40A, 60A, 70	64"	6x7	90
60"	6	60, 90	64"	7	80, 90
60"	6x7	80, 90	64"	7x8	60A, 80
60"	7	60B, 80, 90	64"	8x9	80
60"	7x8	40A, 60A, 70, 80, 90	66"	5x6	90
60"	8	60A, 70, 80	66"	6	60B
60"	8x9	40A, 60A, 70, 80	66"	6x7	80, 90
			66"	7	60B, 90
			66"	7x8	60A
			72"	5	60
			72"	6	60B
			84"	5	60B

*Furnished with "G" Teeth except where specified.

BOLTERS (RIP)—"A" TEETH

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
42"	9x10	40	50"	9x10	40
44"	9x10	40	52"	8x9	40
46"	9x10	40	52"	9x10	44
48"	9x10	40	54"	8x9	44

SAWS IN RED TYPE ARE STOCK SIZES AND ARE GENERALLY CARRIED IN STOCK

ATKINS RIP SAWS—"A" TEETH AND GLUE JOINT RIP SAWS—"I" TEETH

RIP SAWS—"A" TEETH*

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
4"	19	40	12"	12	20, 24, 30, 36
6"	13	20	12"	13	24, 36
6"	14	12, 30	12"	14	24, 30, 36, 56
6"	16	36	12"	16	36, 44
6"	18	36, 40	12"	18	36
6"	22	24, 30	12"	20	44
6½"	18	36	13"	12	24
7"	13	10, 20	13"	13	20
7"	14	20, 30	14"	10	20D, 24D, 30D, 36
7"	18	12, 36, 40	14"	11	30D
7"	20	12	14"	12	20D, 24D, 30D, 36
7½"	18	40	14"	13	20D, 24D, 30D, 36
8"	12	12, 24	14"	14	30D, 36, 44
8"	14	16, 24, 30	16"	10	30D, 36
8"	18	24, 36	16"	11	36
8"	20	24	16"	12	30D, 36, 50
8½"	16, 18	36	16"	13	30D, 36
9"	12	30	16"	14	30D, 36, 40
9"	14	24	16"	18	24D
9"	16	30, 36, 40	18"	10	30, 36
9"	18	24	18"	12	30, 36
9"	20	24	18"	13	30, 36
9½"	10	16	20"	10	30
9½"	14	20	20"	12	30, 36, 60B
9½"	16	24	20"	13	36
10"	10	20, 30	22"	12	36
10"	12	20, 24, 30, 36	22"	13	20D, 60C
10"	13	16, 24, 30	24"	10	36
10"	14	24, 30, 36	24"	11	36, 60C
10"	16	20, 24, 30, 36	24"	12	60C
10"	18	30, 36	24"	14	60C
12"	10	20, 24, 30, 40			
12"	11	24, 30			

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
26"	10	36	42"	7	50
26"	11	36	42"	8	40
26"	12	50C	42"	9	36, 40, 60B
28"	10	36	42"	10	60B
28"	12	60C	44"	8	40
30"	10	36	44"	9	40, 60B
30"	11	60C	44"	10	60B
30"	13	60C	46"	7x8	40
32"	10	36, 60B	46"	9	40
32"	12	60B	48"	7x8	40
34"	9	36	48"	9	40, 60B
34"	10	60B	50"	7x8	40
36"	8	28, 70B	50"	8x9	40, 50
36"	9	36	52"	6x7	50
36"	10	36, 60B	52"	7	60
36"	11	36	52"	7x8	40
36"	12	60B	52"	8	50, 60B
36"	14	60B	52"	8x9	40
38"	9	36	54"	7x8	50
38"	10	70B	54"	8	50, 60B, 80
40"	8	40	54"	8x9	44
40"	9	40			
40"	10	60B			

*Furnished with "A" Teeth except where specified.
Stock saws are set and filed

GLUE JOINT RIP SAWS—"I" TEETH**

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
12"	12	24, 36	14"	12	30, 36
13"	10	24J	16"	11	30, 36
13"	12	30	16"	12	30, 36
14"	10	24, 36	18"	11	36
14"	11	30			

**Furnished with "I" Teeth except where specified.

SAWS IN RED TYPE ARE STOCK SIZES AND ARE GENERALLY CARRIED IN STOCK

ATKINS CUT-OFF SAWS—"L" TEETH AND BOLTERS (CUT-OFF)—"O" TEETH

ATKINS CUT-OFF SAWS—"L" TEETH*

Many kinds of cut-off sawing in the diameters of 30 inch and less are done in planing mills, furniture plants and wood-working factories. These saws larger than 32" are used in saw mills, pulpwood mills and shingle mills for cutting to given lengths. They are also used as slashers.

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
4"	19	88	16"	9	80
5"	18	100	16"	11	100
6"	16	120	16"	12	60, 80, 100, 124N
6"	18	100, 120	16"	13	60, 70, 80, 100, 150
6½"	18	100	16"	14	60, 70, 80, 100, 124N, 150, 200
7"	16	100	18"	9	60
7"	18	100, 110	18"	10	60, 76P, 80
7½"	18	100	18"	12	60, 80, 100
8"	14	80	18"	13	60, 70, 80, 100
8"	18	70N, 100, 150	20"	8	70
9"	16	100	20"	10	70, 84P, 90
9½"	16	100	20"	11	70
10"	16	100, 150	20"	12	60, 70
10"	18	100, 200	20"	13	80
11"	14	90N	22"	9	60
11"	16	120	22"	10	60
12"	12	70, 100	22"	11	70, 100
12"	14	70, 100, 150	22"	12	70
12"	16	50N, 60N, 120, 180, 200	24"	8	70, 100
12"	20	120	24"	9	80
14"	10	80	24"	10	60, 70, 100
14"	12	100	24"	11	70
14"	13	80, 100, 120	24"	12	80
14"	14	60, 80, 100, 150, 170	26"	8	70, 100
			26"	9	70, 80
			26"	10	70, 80
			26"	12	80

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
28"	8	80, 100	42"	7	80, 90
28"	9	70, 100	42"	8	80
28"	10	70	44"	6	90
30"	8	70	44"	8	80, 90
30"	9	70, 80, 90	46"	7	80, 90
30"	10	70	46"	8	80
32"	7	80	48"	6	80
32"	8	70, 100	48"	7	90
32"	10	70	48"	8	70
32"	11	100	50", 52"	6	90
34"	7	80	50", 52"	7	70
34"	8	70, 80	54", 56", 58"	6	100
34"	9	70	54", 56", 58"	7	70
36"	6	80	60", 62", 64"	6	70, 120
36"	7	70, 80	60"	7	100, 120
36"	8	70, 80	66", 68", 70"	5	120
36"	9	70, 80, 100	66", 68", 70"	6	70
38"	6	90	72", 74"	5	120
38"	7	70, 80	72", 74"	6	70
38"	8	80, 90	76", 78", 80", 82", 84"	5	130
38"	9	80, 100			
40"	6	80			
40"	7	80, 90			
40"	8	80			
42"	5	70, 80			
42"	6	80			

*Furnished with "L" Teeth except where specified.

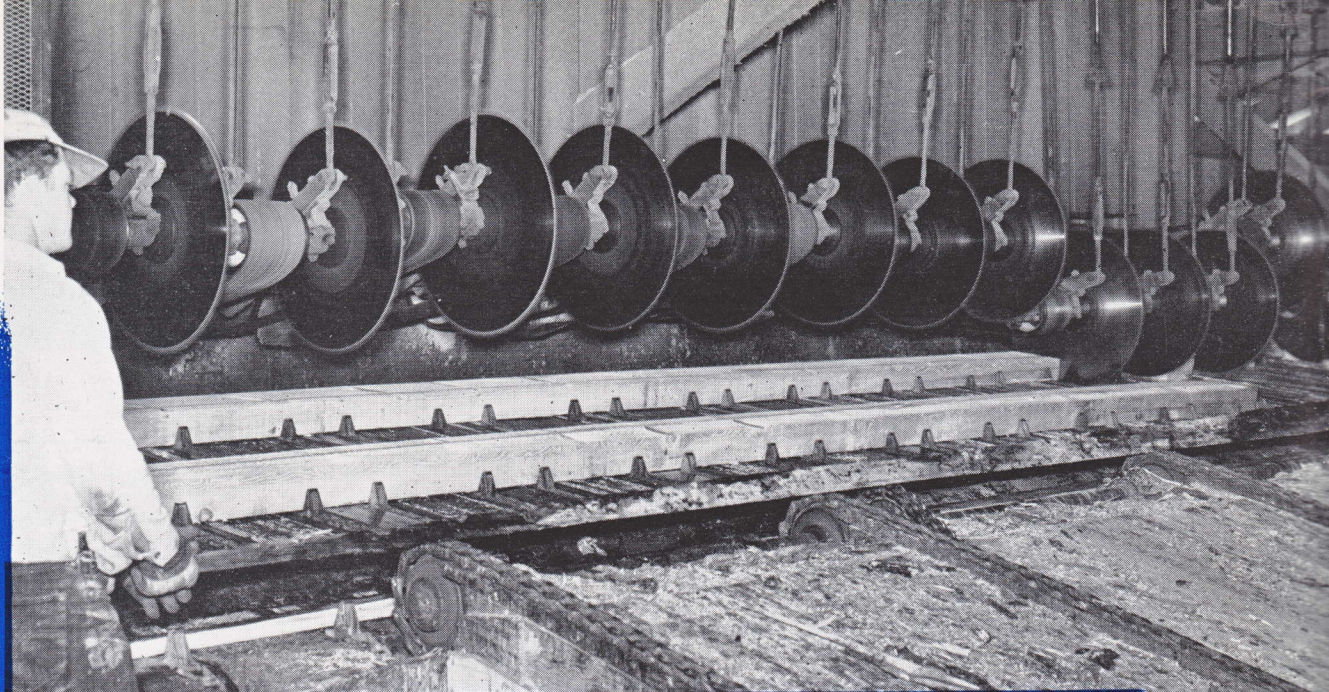
"L" Tooth saws can also be furnished with "M" teeth if desired.

Stock saws are set and filed.

BOLTERS (CUT-OFF)—"O" TEETH

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
40"	9	60	46"	8	60
42"	9	60	48"	8	70
44"	8	60			

SAWS IN RED TYPE ARE STOCK SIZES AND ARE GENERALLY CARRIED IN STOCK



ATKINS TRIMMER SAWS

"L" TOOTH FLAT GROUND*

For end sawing of lumber to certain lengths. They do not leave a smooth end and should not be confused with segmental or solid tooth smooth end trimmer saws (see page 108 for smooth end trimmers).

Machines are usually fitted with 2, 8, 13, 21 or 31 saws, from 18 to 38 inches in diameter, and 6 to 12 gauges thick and $1\frac{1}{4}$ " to $1\frac{3}{4}$ " tooth space. "L" teeth generally used where cutting is above the center of the saw. "M" can be furnished where overhead trimmer cuts below the saw. Trimmer saws are, as a rule, one to three gauges heavier than ordinary cutoff saws in the same diameter.

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
18"	9	60	26"	10	70, 80
18"	10	60, 76P	26"	12	80
18"	12	80	28"	8	80, 100
18"	13	60, 80, 100	28"	9	70, 100
20"	8	60, 70, 80, 100	28"	10	70
20"	10	70	30"	8	70
20"	11	70, 84P, 90	30"	9	70, 80, 90
20"	12	70	30"	10	70
20"	13	60, 70	32"	7	80
22"	9	80	32"	8	70, 100
22"	10	70	32"	10	70
22"	11	70, 100	32"	11	100
22"	12	70	34"	7	80
24"	8	70, 100	34"	8	70, 80
24"	9	80	34"	9	70
24"	10	60, 70, 100	36"	6	80
24"	11	70	36"	7	70, 80
24"	12	80	36"	8	70, 80
26"	8	70, 100	36"	9	70, 80, 100
26"	9	70, 80	38"	6	90
			38"	7	70, 80
			38"	8	80, 90
			38"	9	80, 100

*Furnished with "L" Teeth except where specified.

"L" Tooth saws can also be furnished with "M" teeth if desired.

Stock saws are set and filed.

Saws in **Red Type** are **Stock Sizes** and are generally carried in stock.

ATKINS SLASHER SAWS

"L" TOOTH FLAT GROUND*

Another type of cut-off saw and an important one—all the care is given these in their manufacture as other Atkins fine saws. Rigs hold from 2 to 30 saws. 13 saws are prevalent in the South and East while 21 are generally used on the Pacific Coast. They average 30 to 46 inches in diameter, 5 to 9 gauge in thickness with from 70 to 100 teeth.

If your slasher cuts above saw center order "L" teeth. If cutting is done below the saw order "M" teeth.

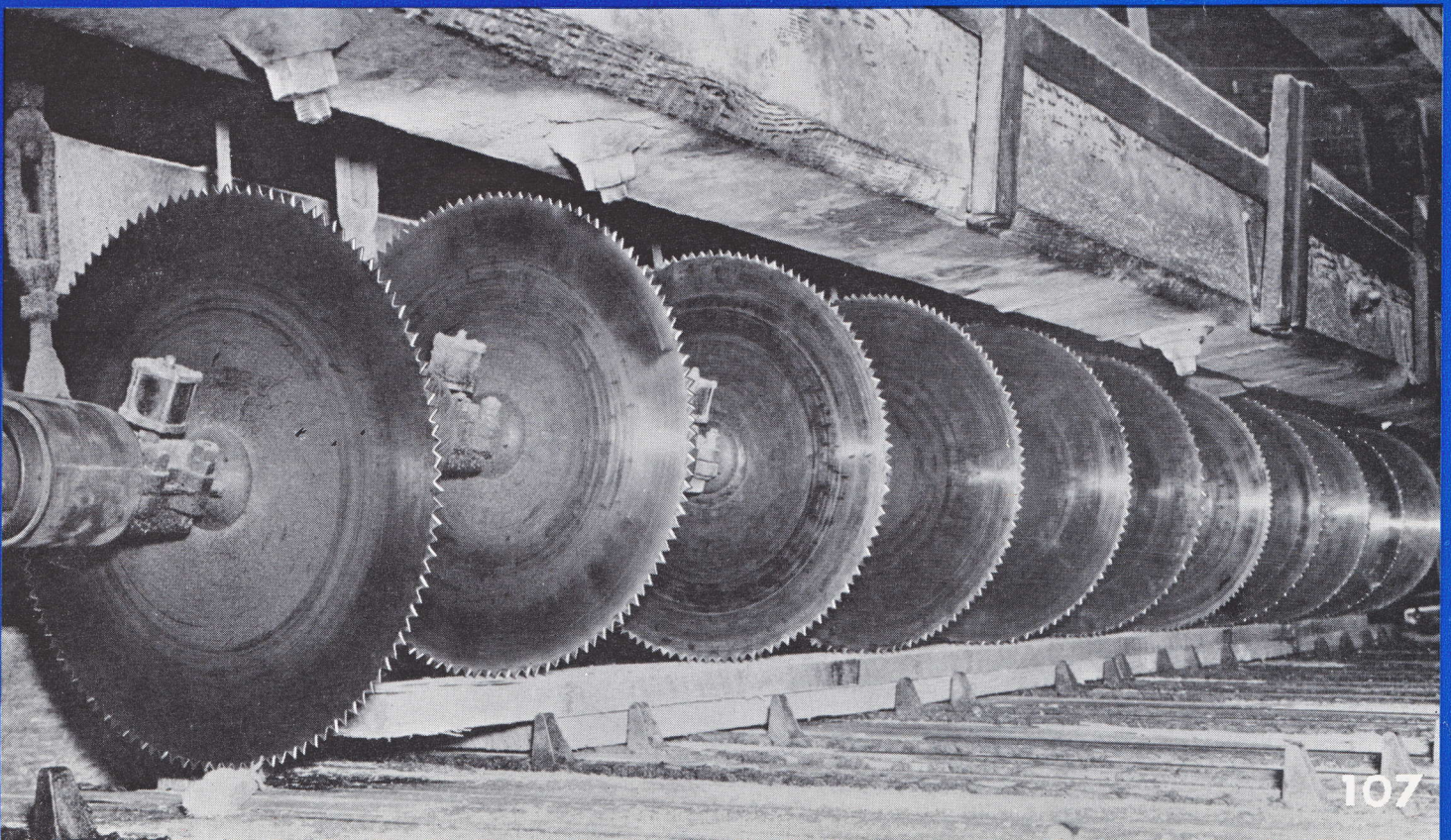
Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
30"	8	70	38"	6	90
30"	9	70, 80, 90	38"	7	70, 80
30"	10	70	38"	8	80, 90
			38"	9	80, 100
32"	7	80			
32"	8	70, 100	40"	6	80
32"	10	70	40"	7	80, 90
32"	11	100	40"	8	80
34"	7	80	42"	5	70, 80
34"	8	70, 80	42"	6	80
34"	9	70	42"	7	80, 90
			42"	8	80
36"	6	80			
36"	7	70, 80	44"	6	90
36"	8	70, 80	44"	8	80, 90
36"	9	70, 80, 100			
			46"	7	80, 90
			46"	8	80

*Furnished with "L" Teeth except where specified.

"L" Tooth saws can also be furnished with "M" Teeth if desired.

Stock saws are set and filed.

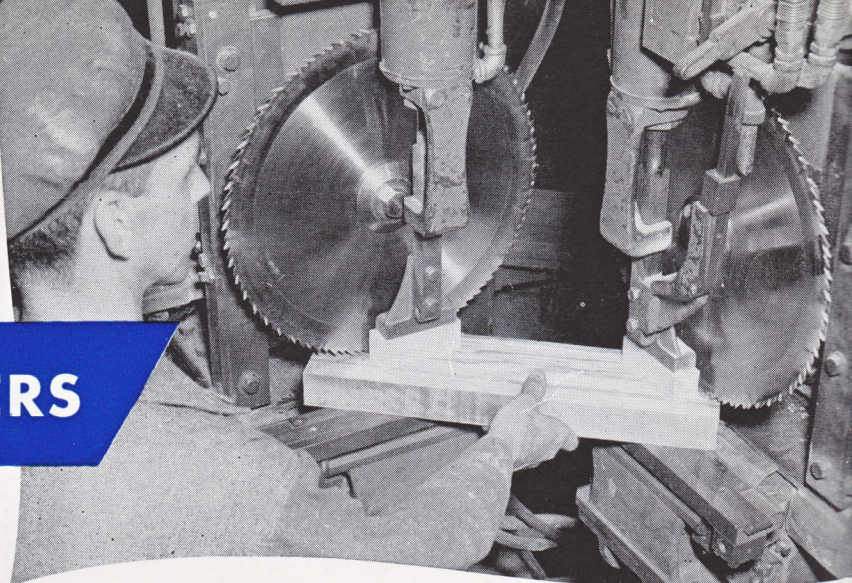
Saws in **Red Type** are **Stock Sizes** and are generally carried in stock.



ATKINS *New*

SEGMENTAL HIGH-SPEED STEEL

SMOOTH-END TRIMMERS



3 TO 10 TIMES MORE SAWING customers using these Atkins Segmental Smooth-End Trimmers, report as much as 3 to 10 times more sawing between sharpenings on trimmers, variety tables, equalizers and similar production equipment.

The increased production in wood sawing is the result of applying a recognized technique prevalent in metal cutting. There is nothing else like it in smooth-end trimmers.

The segments are genuine High-Speed Steel, properly toothed, carefully hardened and tempered and are extremely satisfactory in either hard, soft, green or dry timber, and are particularly effective in sawing veneer panels. The extra sharp points cut clean and smooth without slivering. They will not feather and are easy to sharpen.

Features—genuine High-Speed Steel segments with fast, smooth-cutting, extra sharp teeth.

Segments are fitted to the saw and are easily and quickly removed in case of broken teeth.

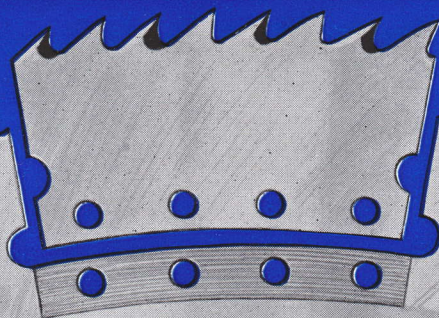
Cup-wheel ground (exclusive Atkins Process) allowing maximum clearance, eliminates burning, makes possible faster sawing.

The initial cost is slightly more than ordinary trimmers, but the greatly increased sawing performance between sharpenings materially reduces retooling costs in the long run. They are quickly and inexpensively resharpened by grinding. (They cannot be filed.)

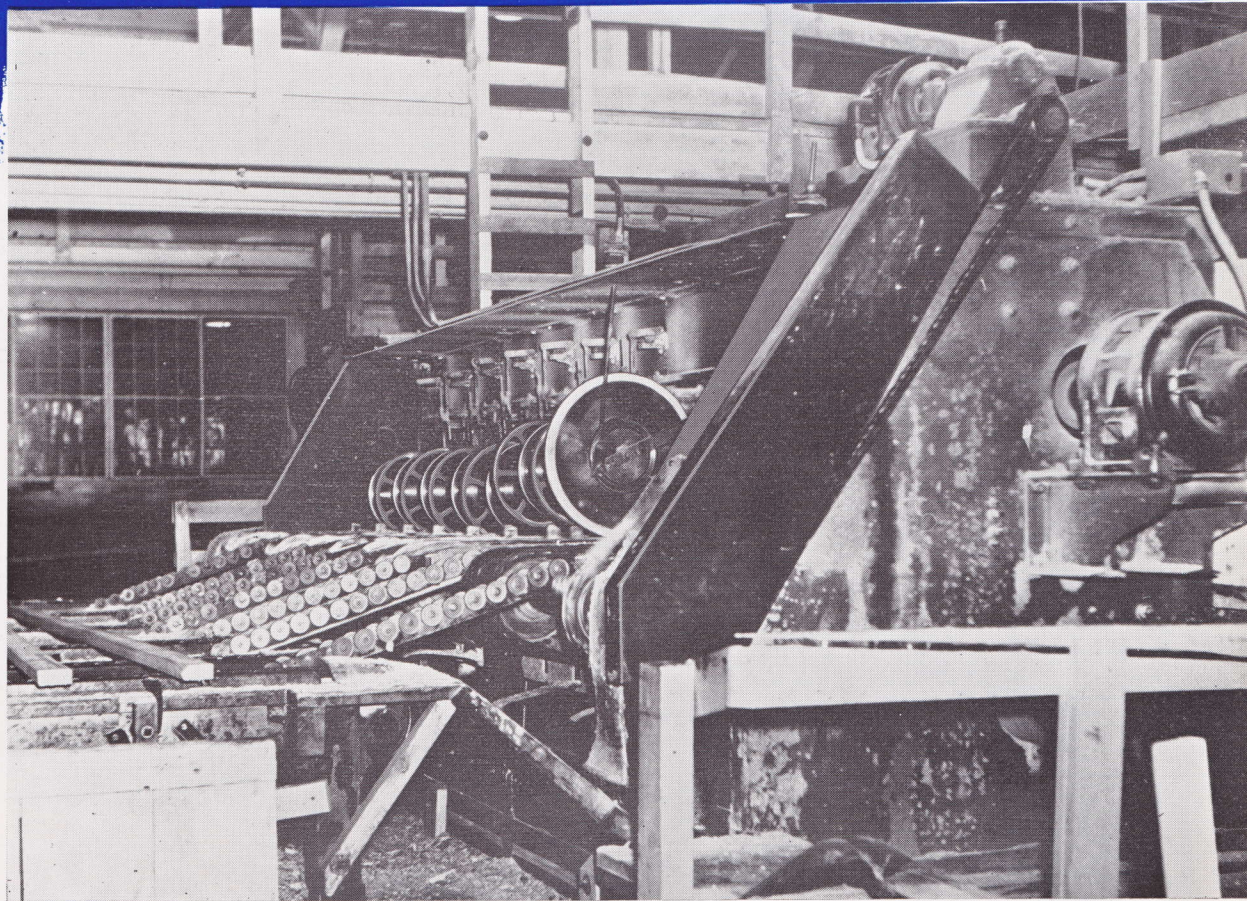
When original segments have produced their full sawing life, they can be replaced on your plate with new High-Speed Steel segments at a materially reduced cost.

Rated Diameter	Actual Diameter	Gauge of Plate	Width of Kerf	Number of Teeth	Pitch	Number of Segments	Rated Diameter	Actual Diameter	Gauge of Plate	Width of Kerf	Number of Teeth	Pitch	Number of Segments
11"	10 ¹³ / ₁₆	.130	.217	60	9/16	12	20"	20 ¹⁵ / ₃₂	.148	.264	90	27/32	18
				72	15/32						108	19/32	
				96	23/64						144	25/64	
12"	11 ¹³ / ₁₆	.130	.217	48	25/32	16	22"	22 ⁷ / ₁₆	.148	.264	90	25/32	18
				64	37/64						108	21/32	
				80	15/32						144	31/64	
				96	25/64								
14"	14	.130	.229	64	11/16	16	24"	24	.156	.276	100	3/4	20
				80	9/16						120	5/8	
				96	29/64						160	15/32	
15"	15	.130	.229	72	21/32	18	26"	26	.160	.276	120	11/16	20
				90	17/32						160	33/64	
				108	7/16								
16 ¹ / ₂ "	16 ¹⁷ / ₃₂	.130	.229	72	23/32	18	28"	28	.170	.288	120	47/64	24
				90	37/64						144	39/64	
				108	31/64						192	29/64	
18 ¹ / ₂ "	18 ¹ / ₂ "	.130	.229	90	41/64	18	30"	29 ¹⁷ / ₃₂	.170	.288	120	25/32	24
				108	17/32						144	41/64	
				144	13/32						192	31/64	

All above saws furnished with Atkins No. 16 style tooth for smooth end trimming or No. 8 style tooth for ordinary cut-off sawing. All are cup-wheel ground for clearance.



ATKINS TAPER GROUND SMOOTH TRIMMER SAWS



SMOOTH TRIMMER SAWS— “P” TEETH*

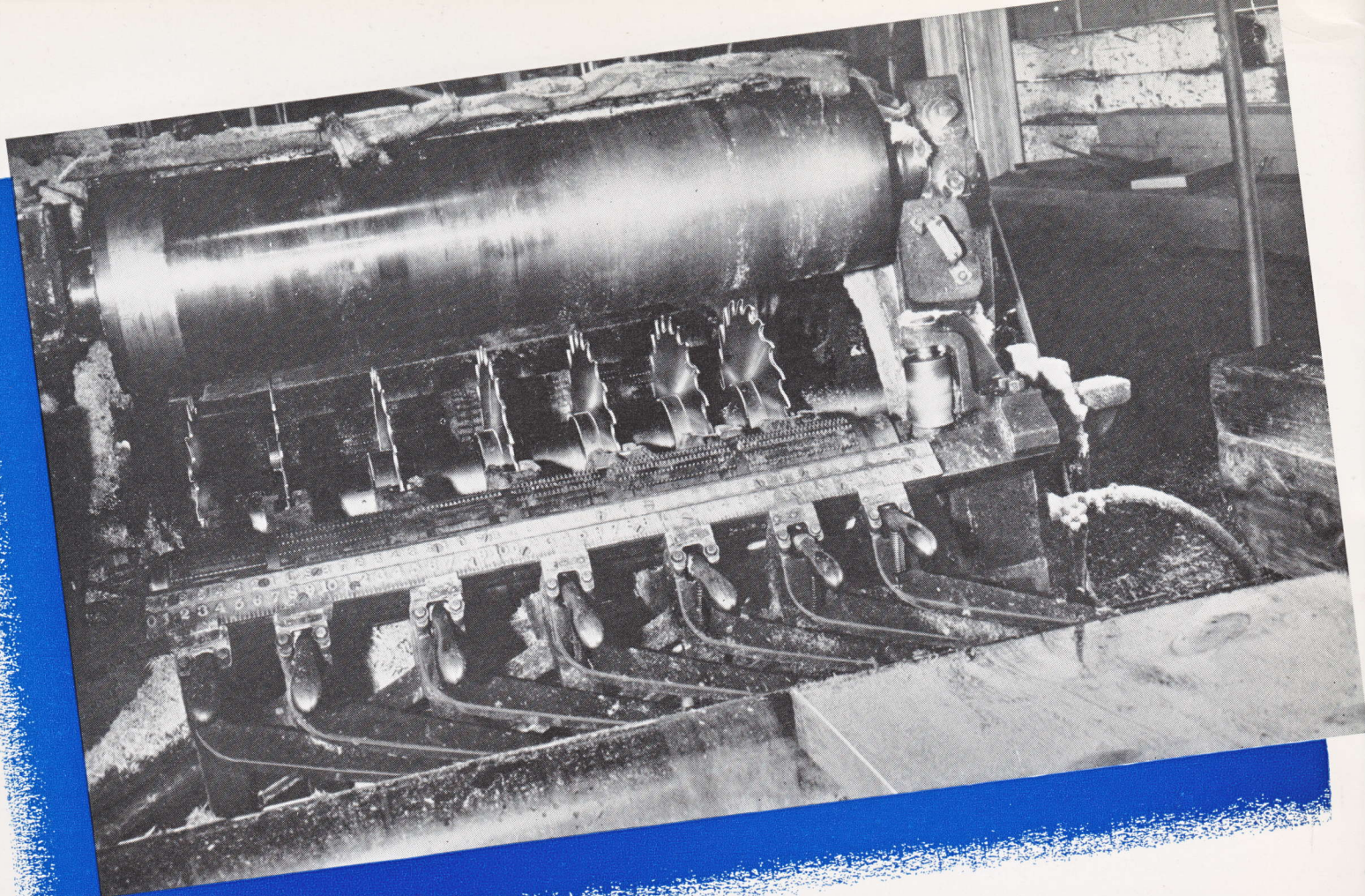
To meet today's demand for smooth end lumber use Atkins smooth trim saws with “P” teeth. This is a solid saw with true taper grinding for clearance. This method gives the correct side clearance and prevents gumming and burning.

The teeth have the proper hook and make a clean smooth cut as the teeth act as knives when saws are running at speed. They leave no splinters or slivers. They operate equally well for either power or hand-fed machines in either green or dry lumber.

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
8"	14x18x14	100	18"	8x12x 8	150
8"	16x19x16	100T	18"	8x13x 8	90
			18"	9x13x 9	150, 180
10"	9x14x 9	120	18"	10 x14x10	80
10"	10x15x10	150			
10"	13x17x13	100	20"	7x11x 7	100, 130, 150
12"	10x15x10	150	20"	7x12x 7	100
12"	11x15x11	150	20"	8x12x 8	130, 150N, 150, 160
12"	12x16x12	120, 150			
13"	5x13x 5	80Q	22"	6x11x 6	100
13"	8x11x 8	60Q	22"	7x11x 7	180
14"	5x13x 5	80Q			
14"	8x13x 8	130	24"	6x10x 6	150, 180
14"	10x14x10	70Q	24"	6x11x 6	120
		100, 140	24"	7x11x 7	120, 150, 200
14"	11x15x11	60Q, 120, 140, 150			
		170	26"	6x10x 6	180
14"	12x15x12	170N	26"	6x11x 6	130
			26"	7x11x 7	110, 160
16"	9x13x 9	130			
16"	10x14x10	130, 150	28"	5x 9x 5	180
16"	10x15x10	100	28"	6x10x 6	118, 170
16"	11x15x11	160	30"	5x 9x 5	130, 150

*“P” Tooth saws can also be furnished with “L” Teeth if desired.

Saws in Red Type are Stock Sizes and are generally carried in stock.



ATKINS EDGER SAWS—SOLID TOOTH

These are solid tooth rip saws and are for edgers and are heavier from one to five gauges than ordinary rip saws. The machines are generally equipped with two to six saws, sometimes more, and are adjustable to various widths of boards to be edged and made parallel.

Sizes run from 12 inch to 30 inch in diameter and 6 to 12 gauges. They have roomy gullets to quickly remove the saw dust. Very accurately made and handle heavy feeds nicely.

EDGER SAWS—"H" TEETH*

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
12"	8	20	22"	7	24, 30
12"	9	24	22"	8	30
14"	9	30	24"	6	24, 30
14"	10	24A	24"	7	30, 36
16"	9	24, 30	24"	8	30, 36
18"	7	24, 30	26"	6	30
18"	8	24, 30	26"	7	30, 36
18"	9	24, 30	26"	8	24, 30
20"	7	20, 30	28"	8	30
20"	8	24, 30	30"	6	30
20"	9	30			

*Furnished with "H" Teeth except where specified.

Saws in **Red Type** are **Stock Sizes** and are generally carried in stock.

ATKINS RESAWS—"A" TEETH*

These resaws are made of Atkins finest steel, carefully and accurately heat treated in every respect. 12 inches to 40 inches in diameter, and to save lumber are taper ground thin gauge at the rim and heavy at center. The thin rim gauge saves lumber. They are taper ground equally on both sides unless otherwise specified.

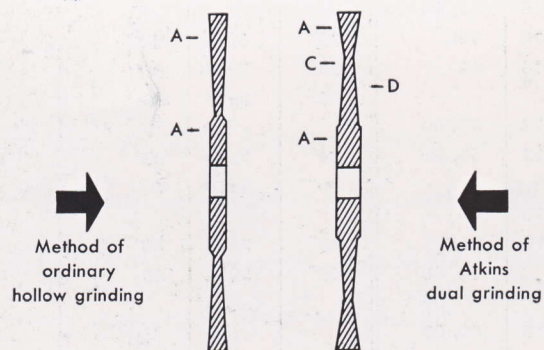
Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
12"	12x16	60	28"	8x17	88C
12"	13x17	60	28"	9x13	60
			28"	9x14	48, 60
14"	12x16	60	30"	7x17	90C
14"	13x17	60	30"	9x13	60
			30"	9x14	60
16"	11x15	60			
16"	12x16	60	32"	7x17	100C
			32"	8x13	60
18"	10x19	76C	32"	9x14	60
18"	11x15	60			
18"	12x16	60	34"	8x13	60
			34"	8x14	60
20"	10x19	84C			
20"	11x15	50, 60	36"	6x16	90C
20"	12x15	90L	36"	7x14	60
20"	12x16	60	36"	8x13	60
22"	10x14	50, 60	38"	7x13	60
22"	11x15	50, 60	38"	8x12	60
24"	9x13	60	40"	7x13	60
24"	9x18	76C	40"	8x12	60
24"	10x14	50, 60			
26"	9x13	50, 60			
26"	9x18	82C			
26"	10x14	50, 60			

*Furnished with "A" Teeth except where specified.

Saws in Red Type are Stock Saws and are generally carried in stock.



ATKINS CIRCULAR MITRE SAW



Atkins Mitre and Combination Saws are made in a variety of tooth styles and of various gauges. The utmost care is exercised in their manufacturing at every step. They produce the smooth cut surfaces that are required today in production plants, with maximum feeds and speeds. Teeth are of the correct shape and hook and they stand up longer between sharpenings. Order your new set today.

COMBINATION HOLLOW GROUND SAWS "S" TEETH

Dia.	Gauge	Dia.	Gauge
6", 7"	16x19x16	14"	11x14x13x11
7", 7½", 8"	14x17x14	14"	12x15x14x12
		14"	13x16x15x13
8"	14x16x14	16"	9x13x11x 9
8", 9"	14x17x16x14	16"	10x14x12x10
8"	13x17x15x13	16"	11x14x13x11
		16"	12x15x14x12
9", 10"	14x17x14	16"	13x16x15x13
10"	12x16x14x12	18"	9x13x11x 9
10"	13x15x13	18"	10x13x12x10
10"	13x16x15x13	18"	11x14x13x11
		18"	12x15x14x12
11"	13x16x15x13	20"	10x13x12x10
12"	12x15x14x12		
12"	13x16x15x13	24"	9x12x 9
14"	9x13x11x 9		
14"	10x13x12x10		

MITRE SAW—"L" TEETH

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
6", 7", 8"	16x19x16	150	12"	16x19x16	200
10"	14x17x14	150	14", 16"	12x15x12	200
12"	13x16x13	150	18"	11x14x11	200

"L" Tooth saws can also be furnished with "M" Style teeth if desired. Saws in **Red Type** are **Stock Sizes** and are generally carried in stock.

ATKINS COMBINATION SAWS

COMBINATION SAWS—"S" & "U" TEETH FLAT GROUND

Dia.	Gauge	Teeth	Dia.	Gauge	Teeth
5", 6", 7", 7½"	18	S	16"	13	S, U
8"	18	S, U	16"	14	S
9"	18	S	18"	12	U
9"	16	U	18"	13	S, U
9½"	16	S	20"	9, 12	U
10"	16	S, U	22", 24"	8	U
11"	16	S	36"	9	U
12", 14"	14	S, U	44"	7	U
14"	13	S, U			

Saws in **Red Type** are **Stock Sizes** and are generally carried in stock.
Stock saws are set and filed.

COMBINATION SAWS—"V" TEETH* FLAT GROUND

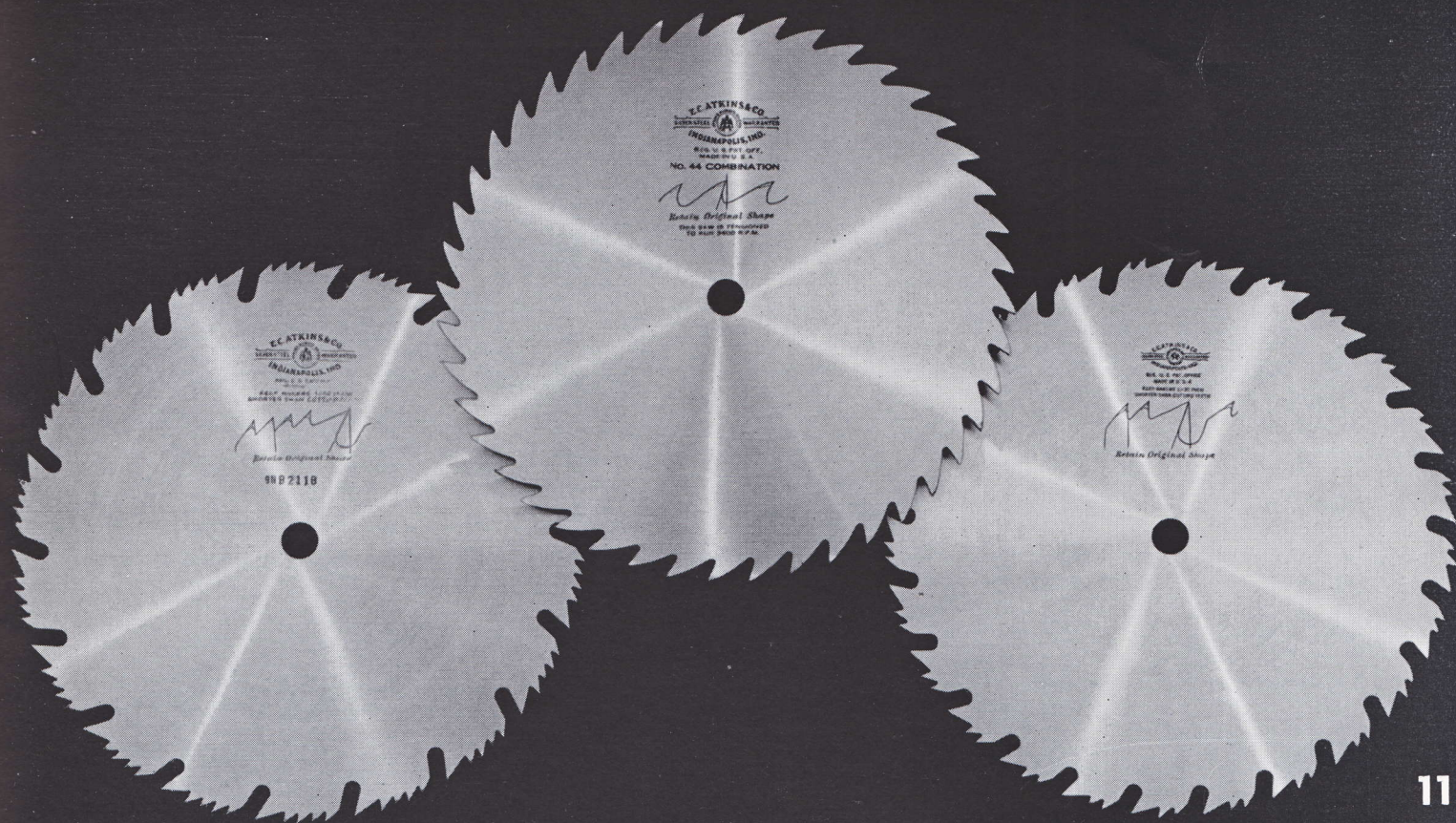
Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
5"	18	44	14"	12	36
6", 6½"	18	30, 40, 44	14"	13	36, 44, 88
7"	18	40, 40X	14"	14	36, 44, 56
		44, 60T	16"	12	44
7½"	18	44	16"	13	44, 48, 100
8"	16	44, 44W	16"	14	44, 48, 64
8"	18	36, 40,	18"	11, 12	44
		40X, 44,	18"	13	44, 48, 112
		60T	20"	11	44
8½"	18	40, 44,	20"	12	44, 84
9"	16	44	20"	13	44, 48
9"	20	40X	22"	11	44
9½"	18	44	22"	12	44, 52
10"	13	60	24"	10	44
10"	14	36	24"	11	44, 60
10"	16	36, 40	24"	12	76
		44, 84	26"	11	60
10½"	16	44	28", 30"		
11"	16	44	32"	10	60
12"	14	36, 40, 44,	34", 36"		
		48, 76	38", 40"	9	60
12"	16	44	42", 44"		
12½"	14	44	46", 48"	8	60

*Furnished with "V" Teeth except where specified.

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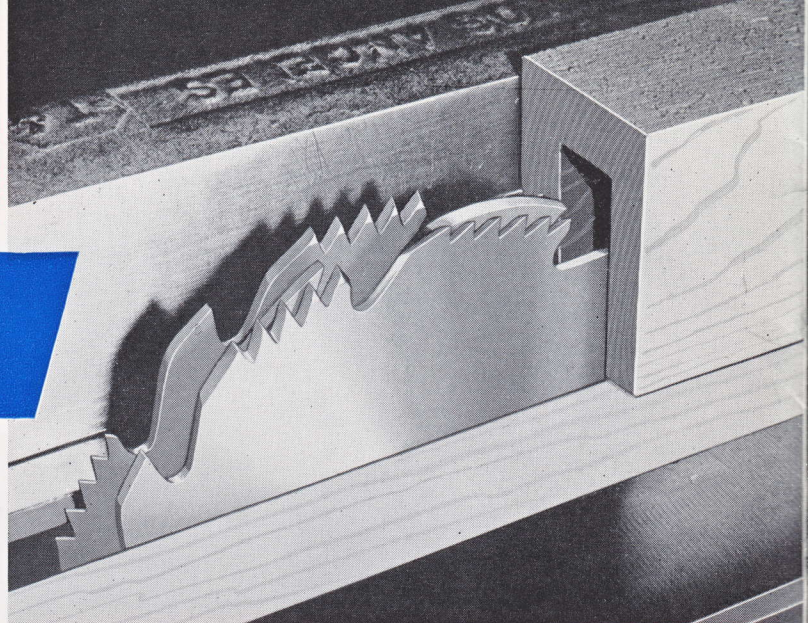
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ATKINS

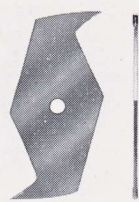
DADO HEADS



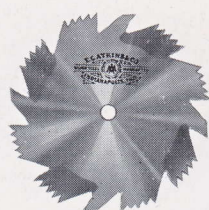
DADO HEADS AND GROOVING SAWS



DADO HEAD



INSIDE CUTTER



OUTSIDE CUTTER

Sets are made up of two outside cutters of "Y" teeth .120 gauge ($\frac{1}{8}$ " thick) and one or more fillers or inside cutters. Atkins outside cutters are all hollow ground .120 gauge on rim and .100 gauge at lowest point of clearance. The cutter sections are set alternately. Inside cutters on 6" and 8" diameters are "BB" teeth; all others are "CC" teeth, either $\frac{1}{16}$ ", $\frac{1}{8}$ " or $\frac{1}{4}$ " thick.

Made in the following diameters: 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, and 18 inch.

Set No.	Minimum and Maximum Width of Cut	Number Outside Cutters $\frac{1}{8}$ "	Number of Inside Cutters		
			$\frac{1}{4}$ "	$\frac{1}{8}$ "	$\frac{1}{16}$ "
1	$\frac{1}{8}$ " to $\frac{7}{16}$ "	2	.....	1	1
2	$\frac{1}{8}$ " to $1\frac{1}{16}$ "	2	1	1	1
3	$\frac{1}{8}$ " to $1\frac{3}{16}$ "	2	1	2	1
4	$\frac{1}{8}$ " to $1\frac{1}{2}$ "	2	2	2	1
5	$\frac{1}{8}$ " to $1\frac{9}{16}$ "	2	4	2	1
6	$\frac{1}{8}$ " to $2\frac{1}{16}$ "	2	6	2	1
7	$\frac{1}{8}$ " to $3\frac{1}{16}$ "	2	10	2	1
8	$\frac{1}{8}$ " to $4\frac{1}{16}$ "	2	14	2	1

COMMON TOOTH GROOVING SAW



A solid tooth grooving saw style "DD" teeth grooves with the grain only. Made in 3" to 14" diameter, $\frac{1}{16}$ " to $\frac{5}{8}$ " thick with 6, 8, 10 or 12 teeth. Made to order only.

SPECIAL TOOTH SOLID PLATE GROOVER



Silver Steel carefully ground, tempered and polished. Recommended for smooth cutting either with or across grain. Made with "Y" teeth.

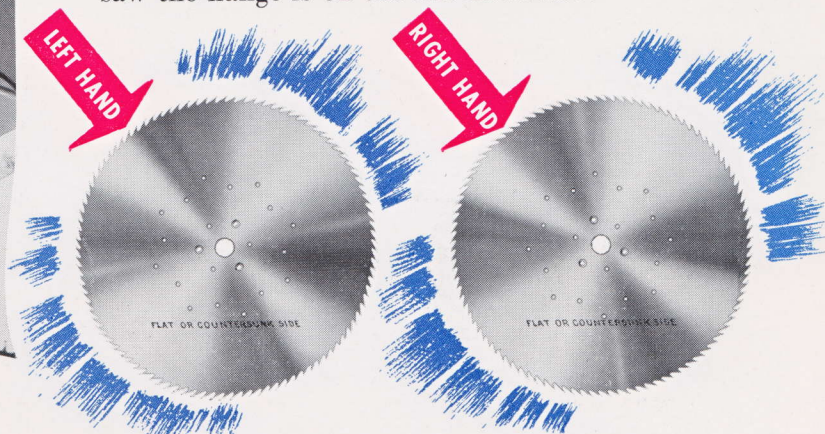
Diameter	Gauge
3" to 14" Inclusive	$\frac{1}{16}$ " to $\frac{5}{8}$ " Inclusive
3", 4", 5", 6", 7", 8", 9", 10", 12", 14"	$\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ "

SAWS IN RED TYPE ARE STOCK SIZES AND ARE GENERALLY CARRIED IN STOCK

ATKINS SHINGLE AND HEADING SAWS



Shingle and heading saws are made both LEFT and RIGHT hand. Be sure to say which. A LEFT hand saw, with the teeth running toward you, the flange is on the right hand side. On a RIGHT hand saw the flange is on the left hand side.



ATKINS SAWS PRODUCE TOP GRADE SHINGLES AND HEADING

If you want the best sawn shingles and heading you owe it to yourself to standardize on Atkins Silver Steel Saws.

Atkins Silver Steel is recognized as the best saw steel. Nothing but the most modern methods of manufacturing are employed plus the use of skilled craftsmen. They are given uniform heat treating and tempering in electrically controlled furnaces. An even tension is important and this is done by experts. An extra smooth bright finish is given each saw and they are balanced to run vibration free.

Many users say Atkins Silver Steel Saws are tough, yet easy to swage, run longer between sharpenings and retain their tension longer.

Shingle and heading saws are very heavy at the eye for stiffness and strength and ground straight from the eye to approximately 5 or 6 inches of the cutting edge. From there they taper to the thinner gauge at the bottom of the gullets and at the rim.

All shingle saws employ a flange or collar attached to the beveled side from the center nearly to the heel of the bevel.

SHINGLE AND HEADING SAWS ARE FURNISHED WITH 'A' TEETH EXCEPT WHERE SPECIFIED

Dia.	Gauge	No. Teeth	Dia.	Gauge	No. Teeth
36"	9x15	80	46"	5x16	60K
36"	9x17	80	46"	5x17	60K
			46"	7x16	80, 100
38"	8x18	70	48"	5x16	60K
38"	9x16	80, 100	48"	7x15	80, 90
38"	9x17	80, 100	48"	8x14	80, 90
38"	10x18	100			
40"	8x18	70	50"	5x16	60K
40"	9x16	80, 100	50"	7x15	90
40"	9x17	80, 100			
40"	10x18	120	52"	7x15	90
42"	5x16	60K	54"	6x14	100
42"	5x17	60K, 90	54"	7x15	90
42"	6x17	60K, 70			
42"	8x15	80, 100	56"	7x14	80, 100
42"	9x16	80, 100	56"	7x15	90
42"	9x17	80, 100	58"	7x15	90
44"	5x16	60K	60"	6x15	80, 90
44"	5x17	60K	60"	7x15	90
44"	7x16	80, 100			
44"	8x14	80, 100	66"	5x15	60K, 80, 90

Saws in Red type are stock sizes and are generally carried in stock.

When ordering above saws give:

- | | |
|--------------------|-----------------------|
| a. Quantity | e. Number of teeth |
| b. Diameter | f. Right or left hand |
| c. Gauge at center | g. Speed |
| d. Gauge at rim | |

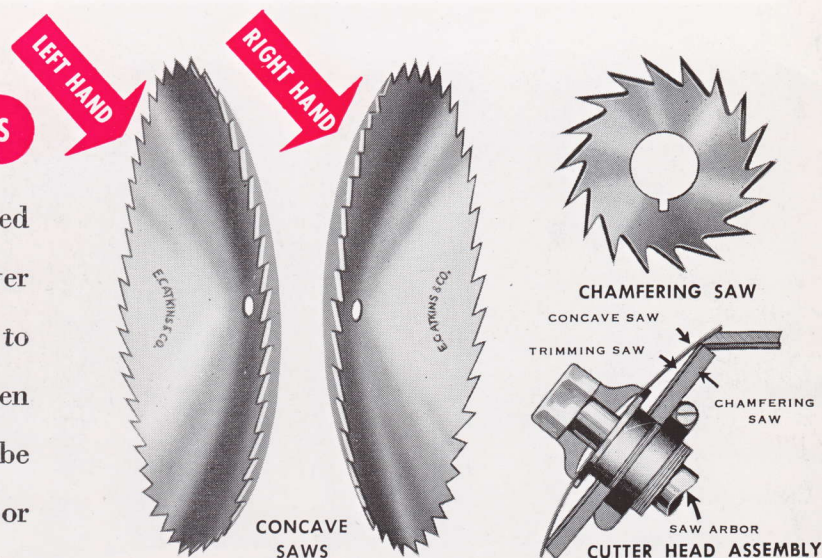
If we are to furnish flange, give maker's name of machine or send full metal template of old flange showing size and location of holes.

If you have flange and we furnish saw only, send it to us that we may fit it to the saw. If you cannot send it, send template of holes and sample of screw by which to drill and countersink saw.

ATKINS CONCAVE, HEADING AND VENEER SAWS

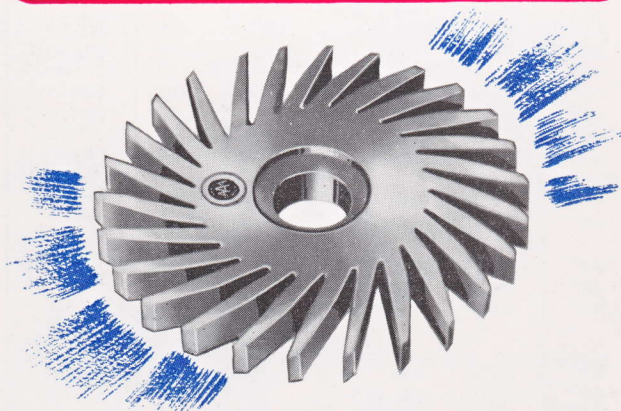
CONCAVE, CHAMFERING AND TRIMMING SAWS

Atkins concave saws are being widely used where good work is a prime requisite. Silver Steel and each saw is accurately formed to run true and even without vibration. When ordering concave saws give the circle to be dished to; also which side is to be dished or concaved which should be at least 4" smaller than diameter of heading to be cut, right or left hand, saw running toward you. See illustration upper right for a guide.



Diameter Inches	Gauge	Diameter Inches	Gauge	Diameter Inches	Gauge
6	16	10	14	16	13
7	15	11	14	18	12
8	15	12	14	20	12
9	15	14	13		

SPECIAL HEADING CUTTERS



This is a high-grade saw in every respect. Made to order only on receipt of complete specifications. In ordering be sure to give the following:

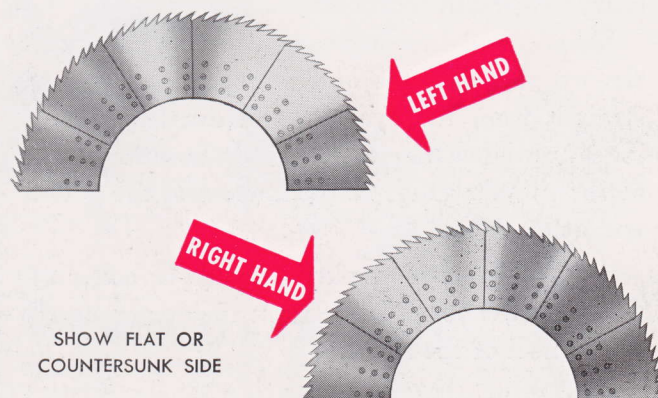
- Quantity
- Thickness
- Size of hole
- Diameter of convex side
- Diameter of concave side
- Radius of circle
- Diameter of counterbore
- Depth of counterbore
- Right or left hand
- Tempered low for filing
- Tempered medium for filing
- Tempered high for grinding

SEGMENT VENEER SAWS

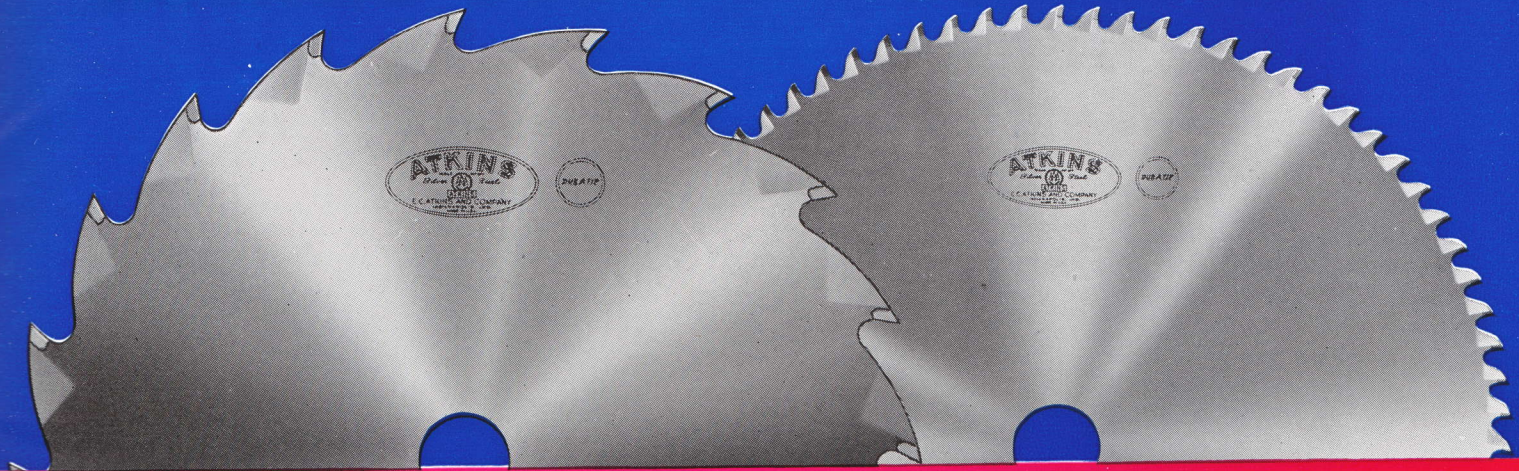
In ordering segments give gauge or thickness at butt and edge, depth of bevel, diameter of saw that segment forms, number of segments in saw, depth of segments, number of teeth per segment, sample of screw by which to drill and countersink side, and right or left hand.

When ordering for a drilled flange, send a sheet iron or tin template, or a correct tracing showing holes and other particulars, or preferably one of the old segments giving original depth.

4" bevel considered standard; segment depth 12"; thickness at butt inside edge gauge 5, 6, 7, 8, 9, 10.



ATKINS DURATIP CIRCULAR SAWS



Scientifically designed in every respect, tip, brazing, gullet and relief grind, to get the utmost in fine production performance. Superior in sawing soft and hard woods, teak, fire-proof lumber, plywood, veneer panels, plywood laminated with plastic or aluminum tops, masonite, etc.

So satisfactory in their performance that many users are converting 100% to Atkins Duratip Rip and Cutoff Saws. Here a few tell you what they experienced with Atkins Duratip Saws.

"568 consecutive hours between sharpenings."

"Saw ran 3 months and 10 days on 48 hour week sawing seatings."

"761 consecutive hours ripping soft and hard woods."

In each instance Atkins Duratip Saws showed considerable net savings over previous tooling up and operating costs.

Here is an example of what you too can save in resharpening costs alone on basis of only 300 hours sawing:

75 sharpenings in 300 hours of standard 14" straight-line rip saw sharpened every four hours—at \$1.50 ea.....\$112.50

One sharpening of an Atkins Duratip straight-line rip saw in 300 hours..... 7.00

Net saving in resharpening alone.....\$105.50

DURATIP RIP AND CUTOFF SAWS

Other sizes and special types such as groovers, cutters, nested sets of special saws can be obtained on complete specifications, kind of material to be cut, type of machine, speed and feed.

Diameter Inches	Number of Teeth	Gauge of Tooth	Gauge of Plate	Pitch
8	20	.135"	.094"	1 1/4"
8	30	.135"	.094"	27/32"
8	40	.135"	.094"	5/8"
10	20	.150"	.109"	1 37/64"
10	30	.150"	.109"	1 1/32"
10	40	.140"	.100"	25/32"
10	60	.140"	.100"	17/32"
12	20	.160"	.120"	1 57/64"
12	24	.160"	.120"	1 37/64"
12	30	.160"	.120"	1 17/64"
12	40	.150"	.110"	15/16"
12	60	.150"	.110"	5/8"
12	80	.150"	.110"	15/32"
14	20	.170"	.130"	2 3/16"
14	24	.170"	.130"	1 13/16"
14	30	.170"	.130"	1 15/32"
14	40	.160"	.120"	1 3/32"
14	60	.160"	.120"	47/64"
14	80	.160"	.120"	35/64"
16	24	.170"	.130"	2 3/32"
16	30	.170"	.130"	1 43/64"
16	36	.170"	.130"	1 25/64"
16	40	.170"	.130"	1 1/4"
16	60	.170"	.130"	27/32"
15	80	.170"	.130"	5/8"
18	24	.170"	.130"	2 15/16"
18	30	.170"	.130"	1 57/64"
18	36	.170"	.130"	1 37/64"
18	40	.170"	.130"	1 13/32"
18	60	.170"	.130"	1 5/16"
18	80	.170"	.130"	45/64"



ATKINS PLASTIC CUTTING SAWS

Prior to the introduction of the Curled-Chip Plastic Tooth for band and circular saws and Duratip Circular Saws, there were literally hundreds of various tooth styles. It merely depended on the whim of either the saw manufacturer or the plastic manufacturer as to what should be used.

With the development of this tooth any of the plastics, including laminates, Masonite, Cellotex, can be sawed with minimum of saw investment.

Advantages:

- Smoother, faster sawing—nick-free in sawed surfaces.
- Reduces user's investment in saws.
- Reduces tooling up charges.
- Work equally well in bars, sheets, tubes, angles, laminates, etc.
- Requires less power for fast sawing.

A Few Uses:

Standardize your sawing with Atkins Curled-Chip Plastic and Duratip Saws for such purposes as the few only mentioned.

LUCITE — PLEXIGLAS . . . Transparent air craft enclosures, costume jewelry, display fixtures, visual training aids.

ATKINS CURLED-CHIP CIRCULAR PLASTIC SAWS

There are two qualities in this saw—High Speed Steel and Carbon Steel.

Diam. Inches		No. of Teeth	Collar Diam.	Center Hole In.
8	.046 x .032 x .038 x .046	200	3/4	5/8 & 3/4
8	.062 x .040 x .050 x .062	150	3/4	5/8 & 3/4
8	.062 x .040 x .050 x .062	100	3/4	5/8 & 3/4
8	.094 x .058 x .072 x .094	68	3/4	5/8 & 3/4
10	.062 x .040 x .050 x .062	200	4	5/8 & 3/4
10	.062 x .040 x .050 x .062	150	4	5/8 & 3/4
10	.094 x .058 x .072 x .094	100	4	5/8 & 3/4
10	.094 x .058 x .072 x .094	84	4	5/8 & 3/4
12	.094 x .058 x .072 x .094	200	5	3/4
12	.094 x .058 x .072 x .094	150	5	3/4
12	.125 x .075 x .095 x .125	100	5	3/4
12	.125 x .075 x .095 x .125	84	5	3/4

CELLULOID—NITRON—PYRALIN . . . Tool and umbrella handles, toilet ware and seats, fountain pens, buttons, spectacle frames.

CATALIN — MARBLETTE . . . Radio cabinets, furniture, hardware, clock cases, refrigerator handles, games.

PLYWOOD . . . Paneling, furniture, packing cases.

METAL (Non-Ferrous) LAMINATE . . . Store fixtures, furniture, table tops.

These are only a few. Write us about any other problems; our engineers will be very glad to assist you.

DURATIP PLASTIC SAWS

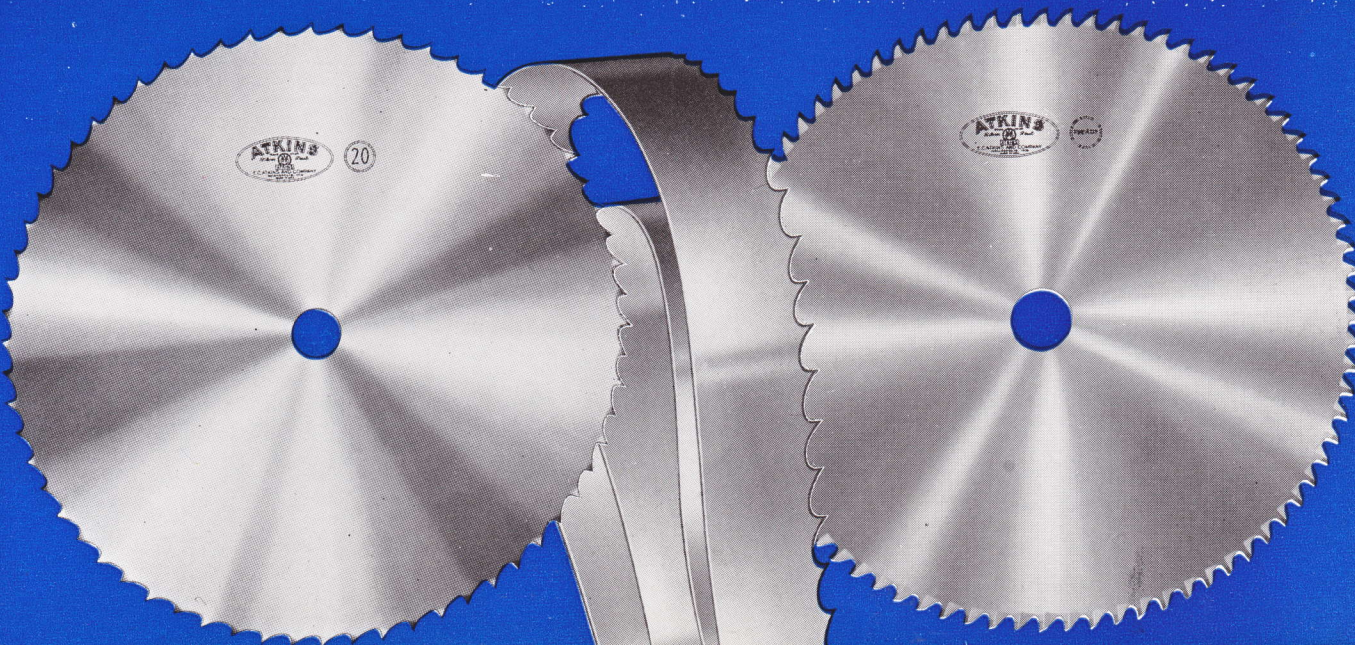
The following table shows diameter, tooth and plate gauges and tooth spacing.

Diameter Inches	Number of Teeth	Gauge of Tooth	Gauge of Plate	Pitch
8	40	.135"	.094"	5/8"
10	40	.140"	.100"	2 1/32"
10	60	.140"	.100"	1 1/32"
12	40	.150"	.110"	1 5/16"
12	60	.150"	.110"	5/8"
12	80	.150"	.110"	15/32"
14	40	.160"	.120"	1 3/32"
14	60	.160"	.120"	4 7/64"
14	80	.160"	.120"	3 5/64"
16	40	.170"	.130"	1 1/4"
16	60	.170"	.130"	2 1/32"
16	80	.170"	.130"	5/8"
18	40	.170"	.130"	1 1/32"
18	60	.170"	.130"	1 1/16"
18	80	.170"	.130"	4 5/64"

ATKINS CURLED-CHIP (PLASTIC) BAND SAWS

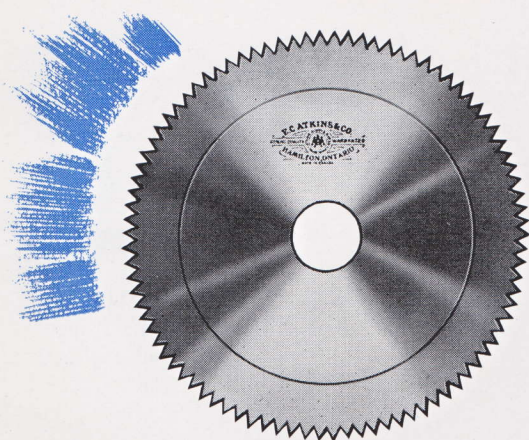
One grade only—hard edge, soft back—must be ground only.

Width in Inches	Gauge	No. Teeth Per Inch
1/4"	.025	4, 6
1/2"	.025	3, 4
3/4"	.032	3
1"	.035	2, 3

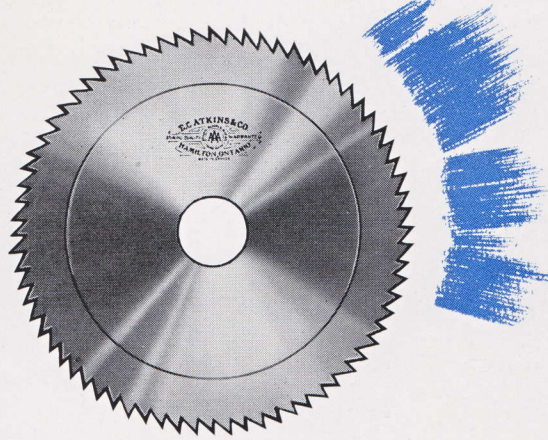


ATKINS SPECIAL CIRCULAR SAWS

THIN RIM SOLID TOOTH SAWS "L", "M", "A", "S" TEETH



CUT-OFF TOOTH



RIP TOOTH

Both rim and collar are ground flat, the rim being 4 gauges thinner than the collar. The collar is never smaller than $\frac{1}{8}$ the diameter of saw.

Diameter	Gauge Rim	Gauge Collar
6" to 18" inclusive	25 to 14	20 to 9

END MATCHERS—"EE" TEETH

Made in sets of two, one right hand and one left hand, in "EE" teeth only. 6, 7, 8, 10, 12, 14 and 16 inches diameter and $\frac{1}{16}$ to $\frac{5}{8}$ inch thickness inclusive.

LATHE SAWS WITH 28 "FF" TEETH

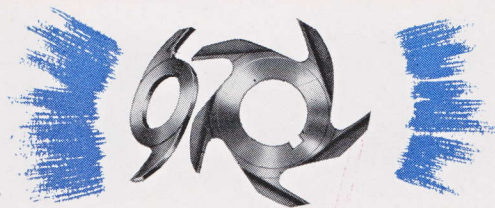
They are not ground on sides. Widely used for rough turning of handles to shape in handle factories.

Dia.	Gauge
8"	9
9"	8
10", 11"	7
12"	6
13"	1, 3, 4, 6
14"	$\frac{3}{8}$ ", 1, 2, 3, 4, 5, 6
15", 16"	5

FEED SPURS—"M" TEETH

Diameter	Gauge	Tooth Spacing
3"—8", Inclusive	$\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ "	$\frac{5}{16}$ "— $\frac{7}{8}$ ", Inclusive

LOCK CORNER CUTTERS



TWO AND FIVE TOOTH

Two and five tooth for regular lock corner or dovetail machines. Made 3 to 12 inches diameter. Teeth vary to suit requirements.

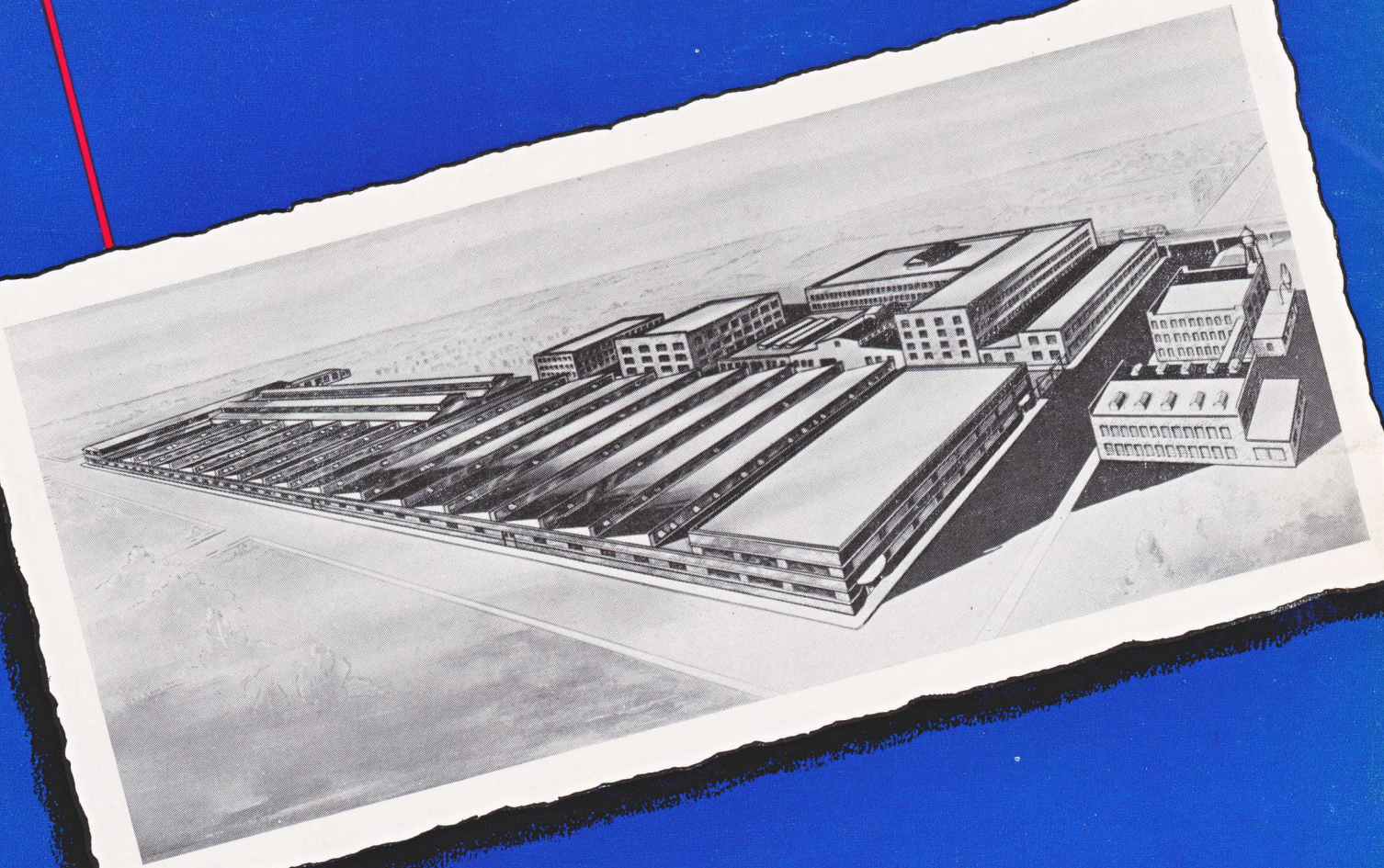
CLOTHES PIN SAWS

Dia.	Gauge	No. Teeth
12"	12	40 "L"
14"	11	40 "X"
14"	9	4 Sections: 6 "A" Teeth and 1 "L" Tooth

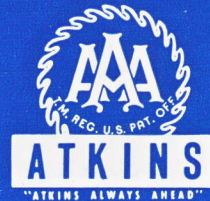
FORMED TOOTH CUTTERS

A special saw made to cut profiles other than a straight line at right angles to its rotation.

Diameter	Gauge
$3\frac{1}{2}$ "—20", Inclusive	$\frac{3}{32}$ "— $1\frac{1}{2}$ ", Inclusive



*The Home
of*
ATKINS *Silver Steel* **SAWS**



E. C. ATKINS AND COMPANY
INDIANAPOLIS, INDIANA